Transfer Limits Animation

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Abstract

This document is a LaTeX template for creating code documentation. It is typeset *report* document class, which means that it has chapters and sections. The main purpose of the document is to illustrates use of figures and listings, but it also showcases cross referencing bibliography entries, etc.

Revision Notes

Authors	Date	Rev	Notes
JZB	Jun 11-14, 2017	Draft	Template for use by others

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Chapter 1

Introduction

This is a template LaTeX file useful when preparing software documentation. It is compiled with pdflatex using included DOS batch file called runAll.bat. In the following

1.1 Including and captioning figures

An example figure is shown in Fig. 1.1.

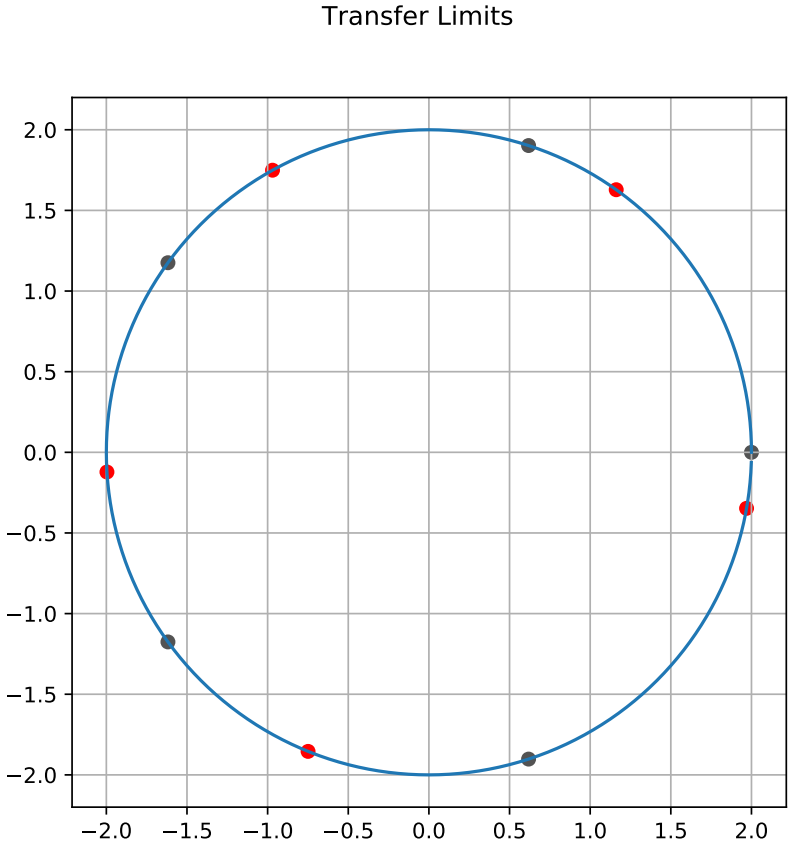

Figure 1.1: Area markers arranged on a circle

1.2 Including and anotating code

Listing 1.1: code/base_frame.py

```
1  mdptx = (x1[i]+x1[j])/2
2  mdpty = (y1[i]+y1[j])/2
3  print('Midpoint between i and j is %g, %g'
       %(mdptx, mdpty))
4
5  goldsectx = mdptx/2
6  goldsecty = mdpty/2
7  print('Golden section point equals: %g, %g'
       %(goldsectx, goldsecty))
8
9  verts = [
10         (x1[i], y1[i]),
11         (goldsectx, goldsecty),
```

1.3 Other formatting

1. Preprocess historic AMI data to enable study based on actual measurements.
2. Execute OpenDSS in snapshot mode to review voltage contours at a wide range of operating conditions.
3. Review the resulting patterns and place OpenDSS *monitors* at nodes that experience greatest voltage change.
4. Execute OpenDSS in temporal mode to collect temporal voltage recordings at monitored nodes.
5. Review voltage histograms at monitored buses to quantify the frequency and magnitude of voltage excursions.

In the following sections, we briefly describe the tool-chains that facilitate this process.